

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-29, 50-52, 75, 82-91, 98-102, and 109-112 without prejudice to pursue these restricted out claims in related application(s), as follow.

1-55. (Canceled)

56. (Previously Presented) A method for processing image data, comprising:
acquiring image data of at least a part of an object;
calculating an image phase value;
assigning the image phase value for the image data using a processor, wherein the act of assigning results in binning of the image data; and
storing the binned image data;
wherein the image data corresponds with a phase value of a breathing cycle, and the image phase value is calculated using the phase value of the breathing cycle.

57-60. (Canceled)

61. (Previously Presented) The method of claim 56, wherein the acquiring comprises performing a computed tomography procedure.

62. (Previously Presented) The method of claim 56, wherein the acquiring comprises performing an MRI procedure.

63. (Previously Presented) The method of claim 56, wherein the acquiring comprises performing a PET procedure.

64-65. (Canceled)

66. (Previously Presented) The method of claim 56, further comprising generating an image using at least a portion of the binned image data.

67. (Previously Presented) The method of claim 66, wherein the generated image comprises a volumetric image.

68-80. (Canceled).

81. (Previously Presented) The method of claim 56, wherein the image data is binned so that the image data correspond with a phase of a breathing motion, and wherein the method further comprises generating an image using the binned image data.

82-93. (Canceled)

94. (Previously Presented) A method for processing image data, comprising:
acquiring image data of at least a part of an object;
calculating an image phase value;

assigning the image phase value for the image data using a processor to thereby bin the image data;

storing the binned image data;

acquiring additional image data, wherein the image data and the additional image data are acquired at different times;

calculating an additional image phase value; and

assigning the additional image phase value for the additional image data;

wherein the image phase value is equal to the additional image phase value, thereby resulting in the image data and the additional image data being binned together in a same group.

95. (Previously Presented) A method for processing image data, comprising:

acquiring image data of at least a part of an object;

calculating an image phase value;

assigning the image phase value for the image data using a processor to thereby bin the image data;

storing the binned image data;

acquiring additional image data, wherein the image data and the additional image data are acquired at different times;

calculating an additional image phase value; and

assigning the additional image phase value for the additional image data;

wherein the image phase value is different from the additional image phase value,
thereby resulting in the image data and the additional image data being binned in different
respective first and second groups.

96. (Previously Presented) The method of claim 95, further comprising:
using the image data binned in the first group to generate a first volumetric image; and
using the additional image data binned in the second group to generate a second
volumetric image.

97. (Previously Presented) The method of claim 96, further comprising displaying the first
and second volumetric images in a sequence to form a video.

98-102. (Canceled).

103. (Previously Presented) A system for processing image data, comprising:
a processor configured for
acquiring image data of at least a part of an object,
calculating an image phase value, and
assigning the image phase value for the image data using a processor, wherein the
act of assigning results in binning of the image data;

wherein the image data corresponds with a phase value of a breathing cycle, and the processor is configured to calculate the image phase value using the phase value of the breathing cycle.

104. (Canceled)

105. (Previously Presented) A system for processing image data, comprising:

a processor configured for

acquiring image data of at least a part of an object,

calculating an image phase value,

assigning the image phase value for the image data to thereby bin the image data,

acquiring additional image data, wherein the image data and the additional image data are acquired at different times,

calculating an additional image phase value, and

assigning the additional image phase value for the additional image data;

wherein the image phase value is equal to the additional image phase value, thereby resulting the image data and the additional image data being binned together in a same group.

106. (Previously Presented) A system for processing image data, comprising:

a processor configured for

acquiring image data of at least a part of an object,

calculating an image phase value,

assigning the image phase value for the image data to thereby bin the image data,
acquiring additional image data, wherein the image data and the additional image
data are acquired at different times,
calculating an additional image phase value, and
assigning the additional image phase value for the additional image data,
wherein the image phase value is different from the additional image phase value,
thereby resulting the image data and the additional image data being binned in different
respective first and second groups.

107. (Previously Presented) The system of claim 106, wherein the processor is further
configured for

generating a first volumetric image using the image data binned in the first group; and
generating a second volumetric image using the additional image data binned in the
second group.

108. (Previously Presented) The system of claim 107, wherein the processor is further
configured to cause the first and second volumetric images to be displayed in a screen in a
sequence to form a video.

109-112. (Canceled).

113. (Previously Presented) The method of claim 56, wherein the act of calculating the image phase value comprises obtaining a breathing signal having a value, and using the value in a mathematical process to determine the image phase value.

114. (Previously Presented) The system of claim 103, wherein the processor is configured to obtain a breathing signal having a value, and wherein the processor is configured to calculate the image phase value by performing a mathematical process using the value.